

Adding and Subtracting Fractions

Work with your partner to write down EVERYTHING you know about how to ADD and SUBTRACT fractions!

Fraction Review

Adding Fractions

1. Get a common denominator
2. Add numerators
3. Simplify answer

Examples:

$$6\frac{2}{3} + 4\frac{5}{9}$$

$$13\frac{5}{12} + 16\frac{7}{8}$$

Subtracting Fractions

1. Get **common denominators**
2. Subtract (if you cannot, regroup, then subtract)
3. **Simplify** answer

Examples:

$$\begin{array}{r} 21\frac{7}{10} \\ - 9\frac{3}{8} \end{array}$$

$$\begin{array}{r} 12\frac{1}{4} \\ - 7\frac{1}{2} \end{array}$$

HOMEWORK

**#2 Fractions Mastery WKSH...
SHOW ALL WORK!**

Multiplying and Dividing Fractions

Work with your partner to write down **EVERYTHING** you know about how to **MULTIPLY** and **DIVIDE** fractions!

Multiplying Fractions

1. Change any **mixed numbers** to **improper fractions**
2. Cross-cancel if you can
3. Multiply **numerators**
4. Multiply **denominators**
5. **Simplify** final answer

Examples:

$$\frac{2}{5} \cdot 3\frac{3}{4} \quad 2\frac{2}{3} \cdot 4\frac{1}{5}$$

$$= \frac{8}{5} = 1\frac{3}{5}$$

$$= \frac{168}{15} = 11\frac{1}{5}$$

4) Dividing Fractions

1. Change any **mixed numbers** to **improper fractions**
2. Convert the second fraction to its **reciprocal**
3. Change the division to multiplication
4. Multiply the fractions
5. **Simplify** the final answer

Examples: $10\frac{2}{3} \div 2\frac{1}{2}$

$$18\frac{3}{4} \div 6\frac{1}{4}$$

Handwritten work for the first example:

$$10\frac{2}{3} \div 2\frac{1}{2}$$

$$\frac{32}{3} \div \frac{5}{2}$$

$$\frac{32}{3} \cdot \frac{2}{5} = \frac{64}{15} = 4\frac{4}{15}$$